al Application No PCT/182004/00 4069

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C30B29/04

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C30B A44C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ

x WO 03/014427 A (APOLLO DIAMOND, INC) 20 February 2003 (2003-02-20)	1-53
the whole document	
US 2003/205190 A1 (LINARES ROBERT C ET AL) 6 November 2003 (2003-11-06) paragraph '0070!	30,31
Y US 6 187 213 B1 (SMITH JAMES GORDON CHARTERS ET AL) 13 February 2001 (2001-02-13) examples 1,2	30,31
Y US 4 316 385 A (DEVRIES ET AL) 23 February 1982 (1982-02-23) column 2, line 23 - line 62	30,31

Turther documents are listed in the continuation of box C.	X Palent family members are listed in ann ex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the internalio nal filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claime d invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claime d invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
14 April 2005	26/04/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cook, S

Inti al Application No PCT7 I B 2004/0 04069

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
x	LU T ET AL: "Characterization of a notable historic gem diamond showing the alexandrite effect" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 193, no. 4, 15 October 1998 (1998-10-15), pages 577-584, XP004144488 ISSN: 0022-0248 page 581, right-hand column	54
T	-& GIA Instruments UK LTD http://www.giainstruments.co.uk/ DiamondView XP002324550 abstract	54-74
Α	US 5 124 935 A (WALLNER ET AL) 23 June 1992 (1992-06-23) the whole document	54
A	EP 0 341 093 A (GERSAN ESTABLISHMENT) 8 November 1989 (1989-11-08) claim 8	54
A	WO 01/96634 A (DE BEERS INDUSTRIAL DIAMONDS LIMITED; SCARSBROOK, GEOFFREY, ALAN; MAR) 20 December 2001 (2001-12-20) cited in the application	
Α	US 4 200 506 A (DRESCHHOFF, GISELA A M ET AL) 29 April 1980 (1980-04-29)	
Α	US 6 391 215 B1 (SMITH JAMES GORDON CHARTERS ET AL) 21 May 2002 (2002-05-21)	
Α	GB 2 332 651 A (* GERSAN ESTABLISHMENT) 30 June 1999 (1999-06-30)	
Α	US 2003/223054 A1 (WARWICK MALCOLM RAYMOND) 4 December 2003 (2003-12-04)	
A	US 6 211 484 B1 (KAPLAN GEORGE R ET AL) 3 April 2001 (2001-04-03)	

PCT/ I B 2004/004069

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03014427	Α	20-02-2003	WO TEP	03014427 A1 2456847 A1 1415022 A1 2004538230 T	20-02-2003 20-02-2003 06-05-2004 24-12-2004
US 2003205190) A1	06-11-2003	US US US US US US US	6582513 B1 2005056206 A1 2005056207 A1 2005056208 A1 2005056209 A1 2005061233 A1 2005066884 A1 2003131787 A1	24-06-2003 17-03-2005 17-03-2005 17-03-2005 17-03-2005 24-03-2005 31-03-2005 17-07-2003
US 6187213	B1 .	13-02-2001	AU AU CA CN DE EP ES WO GB HK IL JP RU TW US	708323 B2 6524796 A 2227185 A1 1196018 A ,C 69618201 D1 69618201 T2 0839098 A1 2166459 T3 9703846 A1 2319225 A ,B 1009786 A1 118886 A 2000501652 T 2161093 C2 380093 B 2002108398 A1	29-07-1999 18-02-1997 06-02-1997 14-10-1998 31-01-2002 18-07-2002 06-05-1998 16-04-2002 06-02-1997 20-05-1998 20-04-2000 31-12-1999 15-02-2000 27-12-2000 21-01-2000 15-08-2002
US 4316385	Α	.23-02-1982	NONE		
US 5124935		23-06-1992	AT AU WO DE DE EP HK JP	109563 T 8926791 A 9209882 A1 69103282 D1 69103282 T2 0559699 A1 30797 A 6503166 T	15-08-1994 25-06-1992 11-06-1992 08-09-1994 16-03-1995 15-09-1993 21-03-1997 07-04-1994
EP 0341093	A	08-11-1989	AU AU AU AU AU AU AU AU AU AU AU	646719 B2 1077692 A 646542 B2 1077892 A 626860 B2 3453989 A 630351 B2 3454089 A 622665 B2 3454189 A 622666 B2 3454289 A 623140 B2 3454389 A 622667 B2 3454489 A	03-03-1994 14-05-1992 24-02-1994 14-05-1992 13-08-1992 09-11-1989 29-10-1992 09-11-1989 16-04-1992 09-11-1989 07-05-1992 09-11-1989 16-04-1992 09-11-1989

Inte " nal Application No PCT7 I B2004/004069

Patent document died in search report		Publication date		Patent family member(s)		Publication date
EP 0341093	A		BR BR BR CDEEEPPPPPPPBBBBBBBBBBBBBBBBBBBBBBBBBBBB	8902133 8902134 8902135 8902137 8902138 1334895 341092 341093 341096 345949 0341093 0341094 0341095 0341095 0341096 0345949 0552819 0552820 0552821 2219394 2219078 2219078 2219078 2219078 2219080 2219081 2219081 2219082 2251305 2251306 174122 174123 174165 174124	A A A A A A C T T T T T T T T A A A A A	02-01-1990 02-01-1990 04-09-1990 04-09-1990 02-01-1990 02-01-1990 28-03-1995 16-08-1990 11-04-1991 11-04-1991 16-08-1990 08-11-1989 08-11-1989 08-11-1989 08-11-1989 08-11-1989 28-07-1993 28-07-1993 28-07-1993 28-07-1993 28-07-1993 29-11-1989
WO 0196634 .	A .	20-12-2001	AU CA CN CZ EP GB WO JP US ZA	6624601 2412855 1441859 20024228 1290251 2379451 0196634 2004503461 2004182308 200210138		24-12-2001 20-12-2001 10-09-2003 17-12-2003 12-03-2003 12-03-2003 20-12-2001 05-02-2004 23-09-2004 12-12-2003
US 4200506	A	29-04-1980	NONE			
US 6391215	B1	21-05-2002	AT AU CA CN DE DE EP ES GB	2291041 1265066 69811362 69811362 0984865 2190079	B2 A A1 A ,C D1	15-02-2003 26-04-2001 11-12-1998 26-11-1998 30-08-2000 20-03-2003 16-10-2003 15-03-2000 16-07-2003 31-10-2001

Int . 182004/004069

Patent document cited in search report		Publication data		Patent family member(s)	Publication date
US 6391215	B1		GB WO GB HK IL JP RU TW ZA ZA	2325392 A 9852774 A1 2339727 A ,B 1024211 A1 124592 A 2001527477 T 2199447 C2 495422 B 9804377 A 200201200 A	25-11-1998 26-11-1998 09-02-2000 31-05-2002 25-07-2002 25-12-2001 27-02-2003 21-07-2002 22-02-2002 22-08-2002
GB 2332651	A .	30-06-1999	AU CA CN DE EP ES WO HK JP TW ZA	746557 B2 1774399 A 2316957 A1 1284916 A ,C 69820295 D1 69820295 T2 1042132 A1 2212385 T3 9933671 A1 1020032 A1 2001526996 T 2215659 C2 458836 B 9811838 A	02-05-2002 19-07-1999 08-07-1999 21-02-2001 15-01-2004 21-10-2000 16-07-2004 08-07-1999 19-04-2002 25-12-2001 10-11-2003 11-10-2001 23-06-2000
US 2003223054	Al	04-12-2003	AU WO	2003233705 A1 03099054 A2	12-12-2003 04-12-2003
US 6211484	B1	03-04-2001	USSUUSSUUSSUUSSUUSSUUSSUUSSUUSSUUSSUUS	5932119 A 2003019852 A1 6476351 B1 2004154825 A1 2004159641 A1 2005005642 A1 699816 B2 7736996 A 9612467 A 2238612 A1 1425912 A 1205663 A ,C 1021271 A1 124034 A 140512 A	03-08-1999 30-01-2003 05-11-2002 12-08-2004 19-08-2004 13-01-2005 17-12-1998 01-08-1997 13-07-1999 17-07-1997 25-06-2003 20-01-1999 26-07-2000 23-12-2001 31-07-2003
		·	JP JP JP RU WO	3238875 B2 9225659 A 2002028793 A 2205733 C2 9725177 A1	17-12-2001 02-09-1997 29-01-2002 10-06-2003 17-07-1997